		Exploring Aeron	autics
		2004 Mathema	
		Performance Sta	ndards
<b>Georgia Mathematics</b>			
Grade 5			
Activity/Lesson	State	Standards	
Wings(177-208)	GA	MA.5.M5M1.a	Estimate the area of geometric plane figures.
<u> </u>			Find the areas of triangles and parallelograms
Wings(177-208)	GA	MA.5.M5M1.d	using formulae.
Wings(177-208)	GA	MA.5.M5M1.f	Find the area of a polygon (regular and irregular) by dividing it into squares, rectangles, and/or triangles and find the sum of the areas of those shapes.
			Students will collect, organize, and display data
Science of Flight	GA	MA.5.M5D2	using the most appropriate graph.
Integrating with			
Aeronautics	GA	MA.5.M5N4.i	Estimate products and quotients.
Integrating with			Estimate the area of a circle through partitioning
Aeronautics	GA	MA.5.M5M1.e	and tiling.
Integrating with			Use variables, such as n or x, for unknown
Aeronautics	GA	MA.5.M5A1.a	quantities in algebraic expressions.
Integrating with			Investigate simple algebraic expressions by
Aeronautics	GA	MA.5.M5A1.b	substituting numbers for the unknown.
Integrating with			Determine and justify the mean, range, mode,
Aeronautics	GA	MA.5.M5D1.c	and median of a set of data.
Scientific Method(124-			Students will collect, organize, and display data
144)	GA	MA.5.M5D2	using the most appropriate graph.
		Exploring Aeron	
		2004 Mathema	
		Performance Sta	ndards
Georgia Mathematics			
Grade 6			
Activity/Lesson	State	Standards	
Fundamentals of Aeronautics (145-176)	GA	MA.6.M6M2.a	Measure length to the nearest half, fourth, eighth and sixteenth of an inch.
Wings(177-208)	GA	MA.6.M6M4.c	Estimate the surface area of simple geometric solids.
			Formulate questions that can be answered by data. Students should collect data by using samples from a larger population (surveys), or
Science of Flight	GA	MA.6.M6D1.a	by conducting experiments.
			Predict the probability of a given event through
			trials/simulations (experimental probability), and
Science of Flight	GA	MA.6.M6D2.a	represent the probability as a ratio.
<u>U</u>			Relate the data analysis to the context of the
Science of Flight	GA	MA.6.M6D1.e	questions posed.
			Use the concepts of ratio, proportion and scale
Integrating with			factor to demonstrate the relationships between
Aeronautics	GA	MA.6.M6G1.c	similar plane figures.
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Integrating with			Students will understand the concept of ratio
Aeronautics	GA	MA.6.M6A1	and use it to represent quantitative relationships.
Integrating with			Using data, construct frequency distributions,
Aeronautics	GA	MA.6.M6D1.b	frequency tables, and graphs.
			Formulate questions that can be answered by
			data. Students should collect data by using
Scientific Method(124-			samples from a larger population (surveys), or
144)	GA	MA.6.M6D1.a	by conducting experiments.
Scientific Method(124-	O, t	IVII CO.IVIOD 1.a	Relate the data analysis to the context of the
144)	GA	MA.6.M6D1.e	questions posed.
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	I	Exploring Aeron	autics
		2004 Mathema	
		Performance Sta	ndards
<b>Georgia Mathematics</b>			
Grade 7			
Activity/Lesson	State	Standards	
			Find the absolute value of a number and
			understand it as the distance from zero on a
The Resource Center	GA	MA.7.M7N1.a	number line.
			Compare and order rational numbers, including
The Resource Center	GA	MA.7.M7N1.b	repeating decimals.
			Formulate questions and collect data from a
			census of at least 30 objects and from samples
Science of Flight	GA	MA.7.M7D1.a	of varying sizes.
			Analyze and draw conclusions about data,
			including describing the relationship between
Science of Flight	GA	MA.7.M7D1.g	two variables.
			Find the absolute value of a number and
Integrating with			understand it as the distance from zero on a
Aeronautics	GA	MA.7.M7N1.a	number line.
Integrating with			
Aeronautics	GA	MA.7.M7A1.c	Add and subtract linear expressions.
Late was the state			Given a problem, define a variable, write an
Integrating with			equation, solve the equation, and interpret the
Aeronautics	GA	MA.7.M7A2.a	solution.
			Understand the relationships among scale
			factors, length ratios, and area ratios between
			similar figures. Use scale factors, length ratios,
Integrating with		==	and area ratios to determine side lengths and
Aeronautics	GA	MA.7.M7G3.b	areas of similar geometric figures.
			Analyze data using appropriate graphs,
			including pictographs, histograms, bar graphs,
			line graphs, circle graphs, and line plots
Integrating with			introduced earlier, and using box-and-whisker
Aeronautics	GA	MA.7.M7D1.f	plots and scatter plots.
			Analyze and draw conclusions about data,
Scientific Method(124-			including describing the relationship between
144)	GA	MA.7.M7D1.g	two variables.
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		Exploring Aeron	
		2004 Mathema	HICS

Performance Standards					
Georgia Mathematics					
Grade 8					
Activity/Lesson	State	Standards			
			Gather data that can be modeled with a linear		
Science of Flight	GA	MA.8.M8D4.a	function.		
Integrating with			Apply properties of right triangles, including the		
Aeronautics	GA	MA.8.M8G2.a	Pythagorean theorem.		
			Recognize and interpret the Pythagorean		
Integrating with			theorem as a statement about areas of squares		
Aeronautics	GA	MA.8.M8G2.b	on the sides of a right triangle.		
Integrating with			Translate among verbal, tabular, graphic, and		
Aeronautics	GA	MA.8.M8A3.i	algebraic representations of functions.		
Integrating with			Solve equations involving several variables for		
Aeronautics	GA	MA.8.M8A1.d	one variable in terms of the others.		
Integrating with			Graph the solution set of a system of linear		
Aeronautics	GA	MA.8.M8A5.c	inequalities in two variables.		
Scientific Method(124-			Gather data that can be modeled with a linear		
144)	GA	MA.8.M8D4.a	function.		